AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended): A system for assisting the regeneration of depollution means

associated with oxidation catalyst-forming means implementing an OSC function, constituting a

supply of-oxygen O2 and integrated in an exhaust line of a motor vehicle diesel engine, in which

the engine is associated with common rail means for feeding its cylinders with fuel.

the system comprising means for analyzing the running conditions of the vehicle and for

comparing them with predetermined threshold values, to control the engine in a first regeneration

mode of operation with a lean mixture when running conditions are above the threshold values.

or in a second regeneration operating mode implementing sequences in which engine operation

alternates between stages of rich mixture operation and of lean mixture operation when

conditions are below the threshold values.

2. (Currently amended): A system according to claim 1, wherein the depollution means

comprise a particle filter.

3. (Currently amended): A system according to claim 2, wherein the particle filter

includes a catalyst.

Amendment

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4. (Currently amended): A system according to claim 1, wherein the depollution means

comprise a NOx trap.

5. (Currently amended): A system according to claim 1, wherein the fuel includes an

additive that is to be deposited together with the particles with which it is mixed on the

depollution means in order to facilitate regeneration thereof.

6. (Currently amended): A system according to claim 1, wherein the depollution means

are impregnated with an SCR formulation, performing a function of oxidizing CO/HC.

7. (Currently amended): A system according to claim 1, wherein the engine is associated

with a turbocharger.

8. (Currently amended): A system according to claim 1, wherein the running conditions

are determined from:

· the load on the engine;

· its running speed;

· the speed of the vehicle; and/or

· the temperature level in the vehicle exhaust line.

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9. (New): A method of assisting the regeneration of a depollution device associated with

an oxidation catalyst implementing an OSC function, constituting a supply of O2 and integrated

in an exhaust line of a motor vehicle diesel engine, in which the engine is associated with a

common rail for feeding its cylinders with fuel, the method comprising:

- analyzing the running conditions of the vehicle, and

- comparing them with predetermined threshold values,

- controlling the engine

- in a first regeneration mode of operation with a lean mixture when running

conditions are above the threshold values, or

- in a second regeneration operating mode implementing sequences in which

engine operation alternates between stages of rich mixture operation and of lean mixture

operation when conditions are below the threshold values.

10. (New): A method according to claim 1, wherein the depollution device comprises a

particle filter.

11. (New): A method according to claim 10, wherein the particle filter includes a

catalyst.

12. (Currently amended): A method according to claim 9, wherein the depollution device

comprises a NOx trap.

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13. (New): A method according to claim 9, wherein the fuel includes an additive that is to

be deposited together with the particles with which it is mixed on the depollution device in order

to facilitate regeneration thereof.

14. (New): A method according to claim 9, wherein the depollution device is

impregnated with an SCR formulation, performing a function of oxidizing CO/HC.

15. (New): A method according to claim 9, wherein the engine is associated with a

turbocharger.

16. (New): A method according to claim 9, wherein the running conditions are

determined from:

· the load on the engine;

· its running speed;

· the speed of the vehicle; and/or

· the temperature level in the vehicle exhaust line.